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Abstract

Voltage-current converter with adjustable quiescent current

Method for controlling an output signal (A) of a voltage-current converting device, to which a reference voltage (U_{REF}) is fed and in which a voltage signal (I, IX) applied on the input side is converted into a current signal, a reference voltage (U_{REF}) setting the output quiescent current (I_0). The provision of a setting device, which is connected to the reference input and is used to determine an envelope of an amplitude-modulated signal at the input is furthermore expedient.

Figure 1

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Reference symbols:



(OP, OP1):	Operational amplifier
(I, IX):	Input signal
(DE):	Level detection device
(PA):	Line
(R _{FF} , R _{FB}):	Resistors
(R _E):	Current source resistor
(U _{REF}):	Reference voltage
(T1, T2):	Transistors
(A):	Collector
(I ₀):	Current mirror
(R1, R2):	Resistors of the low-pass filter
(C1, C):	Capacitors of the low-pass filter
(C2):	Capacitors
(R3, R4):	Resistors
(S1):	Switch